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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/699,543	10/30/2003	Scott Lynn Maddux	AGLE0061	3050

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EXAMINER
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ART UNIT	PAPER NUMBER
2626	

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	04/19/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *30 October 2003*.

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-30* is/are pending in the application.

  4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-30* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *30 October 2003* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

  a)☐ All b)☐ Some * c)☐ None of:

    1.☐ Certified copies of the priority documents have been received.

    2.☐ Certified copies of the priority documents have been received in Application No. _____.

    3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

  * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
  Paper No(s)/Mail Date _____.

4) ☐ Interview Summary (PTO-413)
  Paper No(s)/Mail Date. _____.

5) ☐ Notice of Informal Patent Application

6) ☐ Other: _____.

DETAILED ACTION

1.   This action is responsive to Application No. 10/699543 files on 10/30/2003. Claims 1-30

are pending and have been examined.

Claim Rejections - 35 USC § 112

2.   The following is a quotation of the second paragraph of 35 U.S.C. 112:

> The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the
> subject matter, which the applicant regards as his invention.

3.   Claim 13 recites the limitation "the method of claim 13" in claim 13. There is

insufficient antecedent basis for this limitation in the claim. Claim 13 will be examined as

reading on claim 12. Appropriate corrections are required.

Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign
country or in public use or on sale in this country, more than one year prior to the date of
application for patent in the United States.

4.   Claims 1-30 are rejected under 35 U.S.C. 102(b) as being anticipated by Basore et al. (US

Patent 5,752,232).

Claim 1. Basore teaches, a speech-optimized information apparatus for speech-controlled

interactive applications, **(Title: Voice activated device and method for providing access to**

remotely retrieved data) comprising:

a plurality of grammars for placing constraints on a sequence of words allowed in user

utterances made in connection with user application interaction; and (Fig. 3; **Voice Command:**

TV Schedule; Device Response: Which Programs this week?; Voice Command: Help

Device response: Would you like categories under sport, movies, series, specials, news or

other? Voice command answer: Movies) Fig. 3

means for organizing said grammars **(Central office 160; Fig.1)** to provide high

recognition accuracy for said user utterances from a large and continually expanding set of words

and phrases **(Where the updated information of Basore; (Applications for which phonetic**

spellings and additional application data may be communicated to the voice activated

device 120 include, for example, information related to weekly television schedules, daily

weather reports, selected stock prices, selected news highlights, and shopping specials,

among others. These applications are intended to be exemplary only and are not intended

to limit the scope of the invention. Col. 4, lines 22-29, allows for and update to the system

and the Device response: 8 PM, Channel 13; Fig. 3).

without requiring users to provide samples of their voices ahead of time for training.

(The present invention discloses a voice-activated device using speaker independent speech

recognition Col. 1 lines 49-52)

Claim 2. Basore teaches, the apparatus of Claim 1, said plurality of grammars further

comprising: a user application interaction information space organized by information type. **(Fig.**

3 different information types include Help, movies or Science fiction)

Claim 3. Basore teaches, the apparatus of Claim 2, said information space further

comprising:

means for allowing user accessible information to be linked or organized into a hierarchy;

and means for establishing a user chosen path to navigate through said information. **(Fig. 3**

hierarchy of spoken commands to specify HELP function, which then goes into more

specific subcategories to provide help)

Claim 4. Basore teaches, the apparatus of Claim 1, wherein information in said grammars

is used to carry out requests initialed by buttons on a remote control or other such device.

(discloses a voice activated device using speaker independent speech recognition which is

capable of being set to establish a connection automatically at a pre-specified time to a

remote location. Upon establishing the connection, phonetic spellings needed for speech

recognition, as well as additional application data, are communicated in digitized form to

the voice activated device from the remote location and stored in the device. Coupled to the

device is a microphone which is either built-in to the device or is attached to a separate

telephone handset. A user can then speak a voice command into the microphone. Col. 1

lines 49 –59).

Claim 5. Basore teaches, a method for speech control of interactive applications,

comprising the steps of:

providing at least one speech-controlled application that uses a set of commands initiated

by either speech or, optionally, by input from a device; **(Voice command: TV schedule, Fig. 3)**

providing a set of grammars, composed of utterances, in which speech commands are

specified, wherein said grammars comprise:

a set of items, wherein each item comprises a word or phrase that can be spoken; **(Device**

response: Would you like categories under sport, movies, series, specials, news or other?

Voice command answer: Movies Fig. 3).

an associated set of attributes that provide more information about said item; **(Voice**

command answer: Movies; Device response: Categories art comedy, drama, adventure,

science fiction, horror and other Fig. 3).

an associated set of attributes that provide more information about said grammar as a

whole; and **(Voice command Science fiction; Device Response: Which Day?)**

optionally, a name of a grammar that must be imported to complete an utterance.

(Device Response: 8PM, channel 13; Applications for which phonetic spellings and

additional application data may be communicated to the voice activated device 120 include,

for example, information related to weekly television schedules, daily weather reports,

selected stock prices, selected news highlights, and shopping specials, among others. These

applications are intended to be exemplary only and are not intended to limit the scope of

the invention. Col. 4, lines 22-29; Refer to Fig. 3 for more detail).

Claim 6. Basore teaches, the method of Claim 5, wherein at least one grammar comprises

a command grammar for utterances that are used to control said application. **(Fig. 5 said**

grammar that is uttered by user is in a hierarchal form that allows for the next step and

data to be uttered or displayed by the device).

Claim 7. Basore teaches, the method of Claim 5, wherein at least one grammar comprises

an information-type specific grammar comprising multiple alternatives for a single piece of

information. **(Voice command answer: Movies; Device response: Categories art comedy,**

drama, adeventure, science fiction, horror and other Fig. 3).

Claim 8. Basore teaches, the method of Claim 7, wherein said information-type specific

grammar is linked to another grammar via a unique utterance (keyword) that distinguishes

information type from any other information type. **(Voice command answer: Movies; Device**

response: Categories are comedy, drama, adventure, science fiction, horror and other;

Then Voice command: Science Fiction; Device response: Which day? ...Etc. Fig. 3).

Claim 9. Basore teaches, the method of Claim 8, wherein said information-type specific

grammar comprises an attribute that specifies a keyword; **(When speaker for Voice command:**

says HELP from Fig. 3).

and wherein items in said information-type specific grammar comprise an attribute that

identifies said item's information type. **(Fig.1; Memory 125 stores keywords; so the next step**

for the device response is: Would you like categories under sport, movies, series, specials,

news or other? Voice command answer: Movies, Fig. 5).

Claim 10. Basore teaches, the method of Claim 5, further comprising the step of:

providing a chained command attribute indicates that an utterance in an item   is a part of a

chained command; **(The chained command of Fig. 3)** wherein speech commands are chained

together to provide one-step access to information or application functionality.   **(Applications**

for which phonetic spellings and additional application data may be communicated to the

voice activated device 120 include, for example, information related to weekly television

schedules, daily weather reports, selected stock prices, selected news highlights, and

shopping specials, among others. These applications are intended to be exemplary only and

are not intended to limit the scope of the invention. Col. 4, lines 22-29, allows for an update

to the system and the Device response: 8 PM, Channel 13; Fig. 3).

Claim 11. Basore teaches, a method for speech control of interactive applications,

comprising the steps of:

providing a recognizer; **(speech recognition 128)**

providing a command processor; **(processor 165)**

providing a context manager; **(Application 1 Memory 161 to Application N Memory 163)**

providing a data source; **(Central office 160)**

said context manager **(Memory 125)** communicating with said recognizer to activate appropriate grammars for a current context;

said user speaking a command; **(telephone headset 110 used by user speaking)**

said recognizer **(microphone 112)** returning said spoken command and all associated attributes to said command processor;

said command processor **(voice activated device 120)** accessing said data source, as necessary, to carry out said command;

said command processor**(microprocessor 124)** updating a current context; and

outputting results of said command. **(output to Display 180 or Printer 170; Refer to Fig. 1).**

Claim 12. . Basore teaches, a method for linking grammars into a hierarchy, comprising the steps of:

defining an utterance that links two grammars in two parts; wherein a first part is a keyword **(Movie; Fig. 3)**, for information-type specific grammars, or a command for command grammars; **(different category: comedy, drama, adventure, science fiction, horror and other; Fig. 3)** and wherein contents of said grammar-to-be-linked are imported to include all alternatives for a second part of said utterance. **(The response to the command "Help," for example, will preferably depend upon the previous commands and may differ depending upon what those previous commands were. Again, the device 120 performs the pre-**

processing and back-end processing so as to recognize the spoken command. Col.5 lines 29-33).

Claim 13. Basore teaches, the method of Claim 13 *(interpreted as depending on claim 12)*, wherein said grammars link information-type specific information either explicitly or implicitly. **(present invention discloses a voice activated device using speaker independent speech recognition which is capable of being set to establish a connection automatically at a pre-specified time to a remote location. Upon establishing the connection, phonetic spellings needed for speech recognition, as well as additional application data, are communicated in digitized form to the voice-activated device from the remote location and stored in the device. Coupled to the device is a microphone which is either built-in to the device or is attached to a separate telephone handset. A user can then speak a voice command into the microphone. Col. 1 lines 49-62).**

Claim 14. Basore teaches, the method of Claim 13, wherein an application predetermines a navigation path and link in all appropriate grammars. **(The chained command of Fig. 3).**

Claim 15. Basore teaches, the method of Claim 13, wherein an application relies on type attributes returned to determine which options to make available to a user next. **(Upon receiving the response "Which programs this week?" the user might, for example, issue the command "Help." The application software residing in the microprocessor 124 selects the active vocabulary in the dictionary 127 according to the application and according to the previous command or commands. The response to the command "Help," for example, will preferably depend upon the previous commands and may differ depending upon what**

those previous commands were. Again, the device 120 performs the pre-processing and

back-end processing so as to recognize the spoken command. Col. 5 lines 23-31).

Claim 16. Basore teaches, an apparatus for speech control of interactive applications,

comprising:

at least one speech-controlled application that uses a set of commands initiated by either

speech or, optionally, by input from a device; (Voice command: TV schedule, Fig. 3)

a set of grammars, composed of utterances, in which speech commands are specified,

wherein said grammars comprise:

a set of items, wherein each item comprises a word or phrase that can be spoken; (Device

response: Would you like categories under sport, movies, series, specials, news or other?

Voice command answer: Movies; Fig. 3)

an associated set of attributes that provide more information about said item; (Voice

command answer: Movies; Device response: Categories art comedy, drama, adventure,

science fiction, horror and other; Fig. 3)

an associated set of attributes that provide more information about said grammar as a

whole; (Voice command Science fiction; Device Response: Which Day?)

and optionally, a name of a grammar that must be imported to complete an utterance. .

(Device Response: 8PM, channel 13; Applications for which phonetic spellings and

additional application data may be communicated to the voice activated device 120 include,

for example, information related to weekly television schedules, daily weather reports,

selected stock prices, selected news highlights, and shopping specials, among others. These

applications are intended to be exemplary only and are not intended to limit the scope of

the invention. Col. 4, lines 22-29).

Claim 17. Basore teaches, the apparatus of Claim 16, wherein at least one grammar

comprises a command grammar for utterances that are used to control said application.

Claim 18. Basore teaches, the-apparatus of Claim 16, wherein at least one grammar

comprises an information-type specific grammar comprising multiple alternatives for a single

piece of information. **(Fig.1; Memory 125 stores keywords; When speaker for Voice**

command: says HELP from Fig. 3; the next step for the device response is: Would you like

categories under sport, movies, series, specials, news or other? Voice command answer:

Movies; Fig. 5).

Claim 19. Basore teaches, the apparatus of Claim 18, wherein said information-type

specific grammar is linked to another grammar via a unique utterance (keyword) that

distinguishes information type from any other information type. **(Voice command answer:**

Movies; Device response: Categories are comedy, drama, adventure, science fiction, horror

and other; Then Voice command: Science Fiction; Device response: Which day? ...Etc. Fig.

3; Basore uses, Movies as a keyword to indicate different genres of movies later stated by

the Device response)

Claim 20. Basore teaches, the apparatus of Claim 19, wherein said information-type

specific grammar comprises an attribute that specifies a keyword; and wherein items in said

information-type specific grammar comprise an attribute that identifies said item's information

type. **(Voice command answer: Movies; Device response: Categories are comedy, drama,**

adventure, science fiction, horror and other; Then Voice command: Science Fiction; Device

response: Which day? ...Etc. Fig. 3; Basore uses, Movies as a keyword to indicate different

genres of movies later stated by the Device response)

Claim 21. Basore teaches, the apparatus of Claim 16, further comprising: a chained

command attribute indicates that an utterance in an item is a part of a chained command; wherein

speech commands are chained together to provide one-step access to information or application

functionality. (Voice command answer: Movies; Device response: Categories are comedy,

drama, adventure, science fiction, horror and other; Then Voice command: Science

Fiction; Device response: Which day? ...Etc. Fig. 3; Basore uses, Movies as a keyword to

indicate different genres of movies later stated by the Device response)

Claim 22. Basore teaches, the apparatus of Claim 16, further comprising: means for

processing a "more like this" command for using a currently selected item type to decide where

to look for information that a user wants. (Voice command answer: Movies; Device response:

Categories are comedy, drama, adventure, science fiction, horror and other; Then Voice

command: Science Fiction; Device response: Which day? ...Etc. Fig. 3; Basore uses,

Movies as a keyword to indicate different genres of movies later stated by the Device

response)

Claim 23. Basore teaches, an apparatus for speech control of interactive applications,

comprising:

a data source; (Central office 160)

a context manager, (Application 1 Memory 161 to Application N Memory 163)

said context manager communicating with a recognizer to activate appropriate grammars

for a current context; (Memory 125)

a recognizer, **(microphone 112)** said recognizer returning a spoken command and all

associated attributes to a command processor;

a command processor, **(voice activated device 120)** said command processor accessing

said data source, as necessary, to carry out said spoken command, said command processor

(microprocessor 124) updating a current context and outputting results of said command

(output to Display 180 or Printer 170; Fig. 1)

Claim 24. Basore teaches, the apparatus of Claim 23, wherein said spoken command

effects any of:

a targeted search; an exploratory search; and dynamic application generation. **(Voice**

command answer: Movies; Device response: Categories are comedy, drama, adventure,

science fiction, horror and other; Then Voice command: Science Fiction; Device response:

Which day? ...Etc. Fig. 3; Basore uses, Movies as a keyword to indicate different genres of

movies later stated by the Device response).

Claim 25. Basore teaches, an apparatus for linking grammars into a hierarchy,

comprising:

at least one speech-controlled application that uses a set of commands initiated by either

speech or, optionally, by input from a device; **(Voice command: TV schedule, Fig. 3)**

a set of grammars, composed of utterances, in which speech commands are specified,

wherein said grammars comprise:

a set of items, wherein each item comprises a word or phrase that can be spoken; **(Device**

response: Would you like categories under sport, movies, series, specials, news or other?

Voice command answer: Movies; Fig. 3)

an associated set of attributes that provide more information about said item; **(Voice**

command answer: Movies; Device response: Categories art comedy, drama, adventure,

science fiction, horror and other; Fig. 3)

an associated set of attributes that provide more information about said grammar as a

whole **(Voice command Science fiction; Device Response: Which Day?);**

and wherein an utterance links two grammars in two parts:

wherein a first part is a keyword **(Movie; Fig. 3),** for information-type specific

grammars, or a command for command grammars; **(different category: comedy, drama,**

adventure, science fiction, horror and other; Fig. 3) and wherein contents of said grammar-to-

be-linked are imported to include all alternatives for a second part of said utterance. **(The**

response to the command "Help," for example, will preferably depend upon the previous

commands and may differ depending upon what those previous commands were. Again,

the device 120 performs the pre-processing and back-end processing so as to recognize the

spoken command. Col.5 lines 29-33; Refer to Fig. 3 for more detail)

Claim 26. Basore teaches, the apparatus of Claim 25, wherein said grammars link

information-type specific information either explicitly or implicitly. **(present invention**

discloses a voice activated device using speaker independent speech recognition which is

capable of being set to establish a connection automatically at a pre-specified time to a

remote location. Upon establishing the connection, phonetic spellings needed for speech

recognition, as well as additional application data, are communicated in digitized form to the voice-activated device from the remote location and stored in the device. Coupled to the device is a microphone which is either built-in to the device or is attached to a separate telephone handset. A user can then speak a voice command into the microphone. Col. 1 lines 49-62).

Claim 27. Basore teaches, the apparatus of Claim 25, wherein an application predetermines a navigation path and link in all appropriate grammars. (The chained command of Fig. 3).

Claim 28. Basore teaches, the apparatus of Claim 25, wherein an application relies on type attributes returned to determine which options to make available to a user next. (Upon receiving the response "Which programs this week?" the user might, for example, issue the command "Help." The application software residing in the microprocessor 124 selects the active vocabulary in the dictionary 127 according to the application and according to the previous command or commands. The response to the command "Help," for example, will preferably depend upon the previous commands and may differ depending upon what those previous commands were. Again, the device 120 performs the pre-processing and back-end processing so as to recognize the spoken command. Col. 5 lines 23-31).

Claim 29. Basore teaches, the apparatus of Claim 25, further comprising: means for processing a "more like this" command for using a currently selected item type to decide where to look for information that a user wants. (Voice command answer: Movies; Device response: Categories are comedy, drama, adventure, science fiction, horror and other; Then Voice command: Science Fiction; Device response: Which day? ...Etc. Fig. 3; Basore uses,

Movies as a keyword to indicate different genres of movies later stated by the Device

response)

Claim 30. Basore teaches, an apparatus for dynamically constructing a user interface for

a speech-controlled application, comprising:

a plurality of grammars comprising a structure of speech commands for said applications;

(Memory 126)

said grammars further comprising means for indicating when commands are chained;

(Fig. 3; grammars are arranged in a hierarchal manor so that the user has many

options to pick from that make the selection more exact)

means for parsing said grammars to obtain said structure; **(Phonetic acoustic models**

126) and

means for using said parsed structure to auto-generate at least some of said user interface

for said application. **(Printer 170 and Display 180; Refer to Fig. 1).**

Conclusion

5.   The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

6.   Darbee et al. (US Patent 6,130,726)

Any inquiry concerning this communication or earlier communications from the

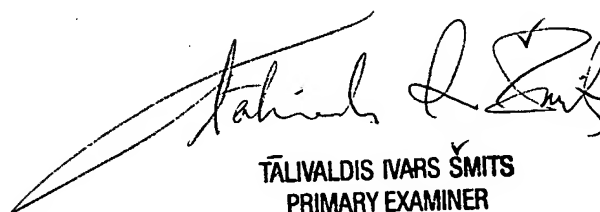examiner should be directed to Agnes Dobrowolski whose telephone number is 571-270-1453.

The examiner can normally be reached on M-F 9AM- 4PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Edouard can be reached on 571-272-7603. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AD

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PRIMARY EXAMINER